

## CLAIMS:

1. A display device (100), comprising:
  - a light emitting picture element (120) and
  - a contrast enhancing element (110), comprising a substrate provided with a plurality of wave guides (216) including a first material of a first refractive index, adjacent said picture element (120), and interstitial regions (212) including a second material of a lower refractive index than the first refractive index, the interstitial regions (212) being arranged between the wave guides (216) and formed narrowing in the direction of the picture element,  
5 an interface (214) between a wave guide (216) and an interstitial region (212) being provided  
10 with a reflective layer.
2. The display device of Claim 1, wherein the interstitial regions (212) have a tapered shape.
- 15 3. The display device of Claim 1, wherein an entrance plane (217) of the plurality of wave guides (216) is arranged for receiving light emitted from said element, a surface area of an exit plane (218) of said plurality of wave guides (216) being substantially smaller than a surface area of said entrance plane.
- 20 4. The display device of Claim 1, wherein said reflective layer is a metal layer.
5. The display device of Claim 1, wherein the interstitial regions are substantially funnel-shaped.
- 25 6. The display device of Claim 1, wherein the top angle of an interstitial region (212) has a top angle ( $2\alpha$ ) of less than 90 degrees.
7. The display device of Claim 6, wherein the top angle lies between 30 and 60 degrees.

8. The display device of Claim 1, wherein a thickness of the wave guide substrate is between 100 nanometers and 10 micrometers.
- 5 9. The display device of Claim 1, wherein a cross-section length of an exit surface of a wave guide is in the order of magnitude of a wavelength of light in the visible range.
- 10 10. The display device of Claim 1, wherein the plurality of wave guides and/or the interstitial regions are arranged in a random structure.
11. The display device of Claim 1, wherein the display device comprises one of a polymer light emitting display, organic light emitting display, transmissive liquid crystal display, cathode ray tube, plasma display or field emission display.